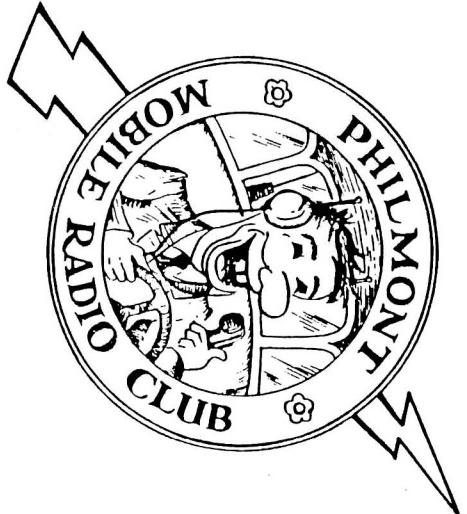


**FIRST CLASS MAIL**



*A Publication of*  
**THE PHIL-MONT MOBILE Radio Club, INC.**

2113 Edgewood Drive, Furlong, PA 18925

# THE BLURB



# The BLURB

VOLUME XXXIX

NUMBER 7

is published monthly by and for the members of The PHIL-MONT MOBILE RADIO CLUB, INC. whose purpose is to promote Amateur Radio in general, and Mobile Radio in particular. Copying and quoting is permitted with a credit line. We gladly exchange publications with other amateur radio clubs; requests should be sent to the Editor. BLURB subscriptions are available to non-members for \$6.50 addressed to the Treasurer. The club meets at 8 PM on the first non-holiday Monday of every month at The Franklin Institute, 21st Street and the Benjamin Franklin Parkway, Philadelphia. Use the rear entrance. ALL VISITORS ARE WELCOME! Amateur Radio License Examinations - every meeting night at 6:30 PM-SHARP!

## CLUB INFORMATION

- 24 Hour Information Number at W3TKQ -

**(215) 448-1139**

Mailing Address: P.O. Box 88, Abington, PA 19001

## STATIONS

W3QV - 147.03 MHz. Repeater - 8200 Ridge Avenue, Philadelphia, PA - Trustee W3BBB

W3RQZ - 1176 Old York Road, Abington, PA - Trustee W3VVS

W3TKQ - The Franklin Institute, Philadelphia, PA - Trustee W3PWG

W3TKQ Operators: WA3AAL, Fred; N3ABS, John; K3TEF, Frank; KA3PJC, Jack; W3PWG, Rollie

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DEADLINE: To be assured of publication in the current month, all copy MUST be in the hands of the Editor at the Board of Directors' Meeting.

## NET SCHEDULE

SUNDAY	09:30	147.030 MHz FM	"SUNDAY MORNING 2 METER NET"
	10:00	28.400 MHz SSB	"10-ON-10 NET"
	10:20	3.993 MHz SSB	75 METER NET
TUESDAY	20:00	147.030 MHz FM	CW PRACTICE NET
WEDNESDAY	20:30	147.030 MHz FM	SWAP NET

# The BLURB

## THE PMRC "ANNUAL BATH" IS BACK!

WHEN: Saturday, August 19, 1989, 2 PM 'till ?

WHERE: Arnie, KC2HX and Sue, N2CYA Sadwin's home in Cherry Hill, N.J.

WHAT: Swimming, eating, talking, etc. Please bring your own swim towels.

FOOD: Arnie will furnish the hot dogs, hamburgers and soft drinks.

Please fill out the form below if you plan to attend.

RETURN TO: Jinny Haring, W3IIN, 2113 Edgehill Dr., Furlong, PA 18925

BEFORE: August 12, 1989

----- TEAR HERE -----

NAME: \_\_\_\_\_

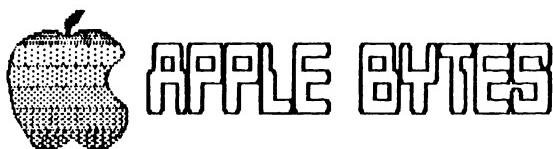
CALL: \_\_\_\_\_

NUMBER ATTENDING: \_\_\_\_\_

We will need all the trimmings for the picnic. Salads, desserts, hors d'oeuvres, chips, etc., or any special dish you may wish to bring.

Covered dish I will bring: \_\_\_\_\_

Please don't everybody bring potato salad or cole slaw!



## JULY BIRTHDAYS

02-ALICE POPVIC (XYL N3FVI)  
 04-MARION BLUM (XYL N3AXJ)  
 06-EDNA McVAUGH (XYL W3LEM)  
 10-NATALIE S. GORDON - WB3KOH  
   -LOUIS RULLI - WB2WOM  
 12-GRACE SMITH (XYL K3GBA)  
 14-WILLIAM C. CLAYTON - K3HIE  
   -LAWRENCE J. CLIFFORD - W3UY  
 20-IRWIN MILLER - K3KNH  
 23-THERESA HENDERSON (XYL KA3MHQ)  
 24-PEGGY SNYDER (XYL W2HSA)  
 25-VIRGINIA J. HARING - W3IIN  
 27-HELEN BEAMON (XYL W3BFM)  
 28-FRANKIE GILPIN (XYL W3SRU)  
 31-STEPHEN C. HOCH - KA3AMO

## HELP PHIL-MONT

ARE YOU PLANNING TO JOIN ARRL OR RENEW YOUR CURRENT MEMBERSHIP? HELP PHIL-MONT BY JOINING OR RENEWING THROUGH THE CLUB...CONTACT KB3IV FOR THE DETAILS.

.... DE WB3KOJ

## **NOTICE**

Due to the proximity of the Independence Day holiday, the JULY General Meeting and VE EXAMS will be held on the second Monday (July 10).

## **CLUB INFORMATION**

24 Hour Information Number at W3TKQ  
**(215) 448-1139**

**AMATEUR LICENSE EXAMS HELD MONTHLY**  
 At  
**THE FRANKLIN INSTITUTE**  
 For Information Call ND3Q at  
**(215) 482-0386 or 879-0505**

## **The PREZ SEZ**

When a person retires, behind him remains the results of his endeavors. Behind Woody Haldeman, W3PST, remains 130 marks of achievement - 130 issues of the BLURB. Talk about deadlines; the folding; the addressing; the stamping; meetings with printers; the budget; and the untold number of other tasks involved in the issuing of the BLURB, and one just has to be struck by the enormity of the work represented by 130 issues. Truly, we have a perfect example of real dedication personified.

Woody has set a record that will probably

stand as long as Phil-Mont exists. His accomplishments in the production of our club publication both from the content and form is most evident.

A mere "thank you Woody" is hardly enough. Yet we do thank him for his efforts, and each of us will remember our snow-white haired editor in our own way, and by the way his efforts have made an impression on each of us through the BLURB.

Enjoy your retirement Woody.... and thanks for being a "Phil-Monter".

## **CODE OR NO-CODE...IS THAT THE QUESTION?**

**W3RM**

Every few years, it seems we revisit the subject of a "No-Code" license, with heated debate on and off the air, and in the ham journals. "I hear the hams are finally doing away with the Morse code", was one wishful-thinker's comment recently overheard at the local Radio Shack store. Even among some of the ham community there appears to be confusion about what is meant by the perennial reference to "No-Code" licensing.

### **Code Required by International Agreement**

By international agreement, amateur operators throughout the world are required to know the code. Article 32, Sec. I, 3.(1) of the International Radio Regulations states: "Any person seeking a license to operate the apparatus of an amateur station shall prove that he is able to send correctly by hand and to receive correctly by ear, texts in Morse code signals. The administrations concerned may, however, waive this requirement in the case of stations making use exclusively of frequencies above 30 MHz."

Thus, the eight or ten petitions now on file with the F.C.C. relating to "No-Code" licensing, diverse as they are, have one common element: they refer to an entry level, limited-frequency license, with privileges only in the VHF and higher bands. Presuma-

bly, under our incentive licensing structure these ticket-holders would, in time, upgrade to a class of license permitting HF operation... after eventually learning Morse code and passing a test at five or more WPM. The Question, therefore, is not so much "No-Code" as "When-Code"?

Through the 40 years that I've been a ham, the licensing requirements have been progressively relaxed. When I got my ticket in 1949, there were but two licenses, Class "A" and Class "B". You started with a Class "B" license, requiring a code test at 13 WPM with one minute of perfect copy... receiving and sending; and a written test about like the present General exam. Class "B" granted all amateur privileges except voice on 75 and 20 meters. (There was no phone on 40, and there was no 15 meter band then!) To get phone privileges on 75 and 20, one had to hold a "B" ticket for at least a year, then pass an additional written test for Class "A".

In the early '50s came "incentive licensing," with the introduction of the Novice, Technician, General, Advanced and Extra Classes. Former Class "B" holders were grandfathered to General status, and Class "A" hams became Advanced Class. The code test was reduced to 5 WPM for Novice and Tech, left at 13 WPM for General and Advanced, and set at 20 WPM for the new

*Continued on page 6*

**\* UPDATE \***

JULY 10	General Meeting
July 15-16	<b>PADDLERAMA</b>
July 19	Directors' meeting at KA3BET & N3EBE's --- * ---
AUG 7	General Meeting
Aug 19	Annual BATH revisited at Sue & Arnie's in Cherry Hill (N2CYA & KC2HX) --- * ---
SEPT 11	General Meeting
Sept 13	Directors' meeting at WB3CMM's --- * ---
OCT 2	General Meeting
Oct 18	Directors' meeting --- * ---
Nov 11	<b>BANQUET</b> Master of Ceremonies: Russ Miller, K3NYN

**HAMFESTS**

JUL 30	TIMONIUM, MD BRATS' Maryland Hamfest --- * ---
AUG 13	WARRINGTON, PA MARC Hamfest Bucks County Drive In 147.06 146.52 --- * ---
AUG 20	DOVER, DE Kent ARC --- * ---
SEP 17	PENNSAUKEN NJ So. Jersey Radio Assn. Hamfest Pennsauken High School Rts 73 & 130 145.29 --- * ---
OCT 1	BENSALEM, PA Penn Wireless Tradefest '89 Rt 152, 1 mi S of Rt 132 146.97 146.52
OCT 8	WARRINGTON, PA Pack Rats Bucks County Drive In

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**V.E. TEST LOCATIONS**

from EPA FEEDLINE &amp; others

BELLMAWR, NJ  
Monthly, 3rd Thursday  
Bill Helmatag  
(609) 546-7710

BRYN MAWR  
Bob Haase, W3SA  
(215) 293-1919

CENTER CITY  
Jul 10, Aug 7, Sep 11  
Dusty Rhoads, ND3Q  
(215) 482-0386  
(215) 879-0505

LEVITTOWN  
Dave Heller, K3TX  
(215) 946-1040

PERKASIE  
Monthly, 3rd Monday  
Stu Silverstein, K3UEI  
(215) 584-0775

HATBORO  
Tom Michaud, WA3TQJ  
(215) 343-3494

representation (or good chunk, if you will) of the average amateur community view of things. I am not trying to put Phil-Mont down (or any other club up), I am going to use Phil-Mont as an example of how many, many clubs are set up right now. However there are clubs (the other chunk) that do not have these problems, and that is proven in their membership records, as one can see the number of high school memberships, and memberships under 25.

full technician and get a ... call! Learn 13 wpm and be general! Two chances (or incentives) to learn the code! As well as being allowed on the HF bands! It will work, if we also change our attitudes.

**Privileges?**

All privileges above 50 MHz with these exceptions:

- Only 145.000 - 145.100 of the 2M band for use of packet radio only.
- All of 420-450 except 440 - 445 (1/2 of the 440 repeaters).
- All of 6M except 52.5 - 53 (1/2 of the 6M repeaters).

**Name? - "Novice License Type 2"**

So that we do not have to change any current names of licenses, and so that people who get this license are still stuck with the ora of being a novice, and having a novice call, as a matter of fact I think we should invent a new type of call sign! Make it even longer! Something like a 2 x 4 KA3AAAA. Not only must we give them privileges, but we must give them a reason to want to upgrade.

By the way, while we are on the subject of calls, I wish someone would petition the FCC to come up with some new types of calls. Other people in the world have some neat type of calls. Why can we? Instead of giving new extra operators in areas that have no new 1x2s or 2x1s AA#\$\$ type calls, lets get'em something new, say \$#\$\$, like K30AA or #\$\$3K0AA, where the first # is the call area, and the second number just increments till no signs are left. Extras worked hard to get there, they deserve very special calls.

**Requirements:**

Pass Novice, Technician and General written exams all on one day at one VEC. Why make it so hard? Two reasons: keep the riffraff off the ham bands, and second for incentive... think of it! Learn 5 wpm and be a

**THE SWAP NET LIVES!**

On Wednesday, June 14th, Stuart, N3GWG, revived the SWAP NET, which has been dormant for at least a year.

If it's to be a success, he'll need your support (and a few assistant net controls).

**MORE CODE vs NO-CODE**

**ANOTHER OPINION**  
**N3GWG**

I have only been licensed since June 30 of 1988, however I have been involved in the amateur radio hobby for, going on, almost 9 years now. I have, from time to time, heard talk of no code licenses. The last time the amateur community was talking about such a license, I believe, they were going to call it a communicator's license, and make it a mostly digital logic exam.

I am very torn on the issue of no code for many reasons. First of all I feel that code is a needed block to legitimately keep the riffraff off the ham bands. I also feel that it impedes (not stops) many people who would normally be excellent operators. However, those, who really desire to be an active part of this service, will indeed do whatever is necessary to gain privileges. We must not forget though that our numbers are diminishing, that the average age of a ham today is between 50 - 70.

I really don't think that the code requirement is the main reason why amateur radio is not getting younger people involved. I feel it is only one change, in an entire host of problems. Many of which stem from the "Elmer attitude" (I call it). When a potential new ham sees, and watches, an HF station being used, it is quite an exciting experience.

The problem is that the younger people of today (including myself) are looking for the high technology or "total technology" in ham radio. And to be honest, it can't be found. I can go to just about any ham (50 or older) and expect to find an HF radio with a beam. But many older operators don't care to promote the newer exciting features of amateur radio to excite younger hams.

**NEW OUTLOOK NEEDED**

What is needed in addition to a no-code license (and what will make a no-code license work) is a new outlook on amateur radio.

Let's really start pushing ATV, packet radio, AMSAT and other new exciting

modes. Unfortunately, if you have ever spoken to any "older Elmer" they will tell you that HF is what ham radio really is. And that all the other modes are just a big waste of time and money. Back to no-code: it is part of a more total answer. What is that answer? Many things: Elmers, free licensing classes, no-code, clubs visiting local schools, and most important, the demonstration of amateur radio to young people in a way that will excite them to say, "I want my license... code or not.... someday I will be an EXTRA!"

**OUR PRIVATE AFFECT ON THE AMATEUR WORLD**

I am going to make some generalizations; I would like you to evaluate our club in some of the areas I will mention. Do we fail in most of these areas? You make your own decision, I know what mine is. I will tell you at the end of this article.

**Some clubs.....**

- are on the average, an older club (in membership)
- are not actively promoting amateur radio to the youngsters in our community (visits to schools etc....)
- have a very "old fashioned" attitude towards the new technologies of amateur radio
- do not have an outgoing attitude towards most amateurs (cliquish)
- do not teach classes

I could never have anything bad to say about anyone in the Phil-Mont Mobile Radio Club. However, we might be cited as one reason why amateur radio is worried about its numbers. Let's evaluate our club as a partial

**37 Years of QST****W3GXK****TOP GUN!**

Congratulations to Mayer Zimmerman, W3GXK, the "SPENCER" (sorta like an Elmer, but .... well, you know what we mean) of our "sister" repeater on '03, operated by The Baltimore Radio Amateur Television Society (BRATS).

Mayer was selected as the ARRL Atlantic Division's "HAM OF THE YEAR" at the division's convention in Rochester, NY on May 20. He's been Secretary to The BRATS since 1974, and anytime you travel south of the Mason-Dixon Line, you'll probably be greeted by him if you "ID" on '03. He can also be heard regularly running two of the BRATS' regular nets. This summer, when "ducting" is active, listen for him running the following nets:

Traffic & Info.	Mondays 9 pm
News Bulletins	Saturdays 1 pm

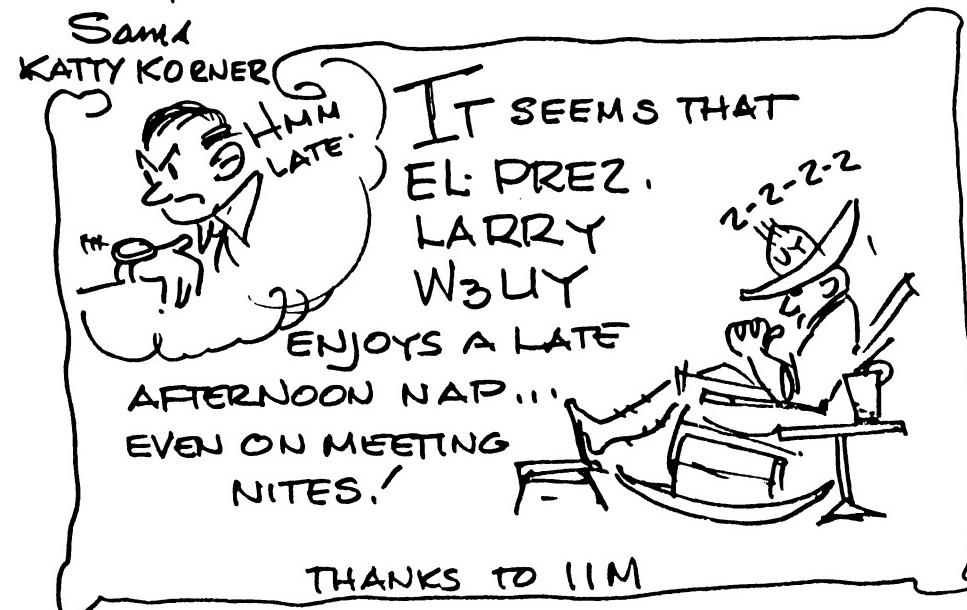
Our PREZ has been doing some attic cleaning lately, and has a complete (minus 1) collection of QST magazines dating from 1952 to the present. Anyone interested? The price is right! Contact Larry, W3UY.

**Code Practice Net Takes Vacation**

This regular feature of the Phil-Mont repeater will be off-the-air for the summer, so its "main man" (W3RM) can have a much needed vacation. The net will resume regular operation on the third Tuesday of September.

Meanwhile, our regular Volunteer Examination sessions will continue throughout the summer.

When the practice net resumes, Dick will be grateful for any "assistant" net controls that would like to volunteer.



"Code" from page 3

Extra Class (which then carried no additional privileges over the Advanced Class!).

And today, with the volunteer exam program administered by fellow hams, one need not endure the intimidating atmosphere of an F.C.C. office; all the questions to be asked and the answers, verbatim, are available in advance for study...and memorization; no code sending test is required; and the code receiving test can be passed by answering seven out of ten fill-in-the-word questions on the content of a five-minute QSO transmission (or one minute of solid copy).

## Question pool is "no problem"

With the question pools available in print, on cassettes, and on computer disks, it's not difficult - especially for younger applicants with good retentive memories - to get a passing score while understanding little of the material. As one 12 year old YL told us recently on the repeater, after having just passed the General, "I've ordered the disks for Advanced and Extra, because I find that after I run the program a few times I can associate the answers with the questions... nooo problem; but I'll have to work on the code over the summer." The code, it seems, still requires some commitment, some effort.

By definition and regulation, our Amateur Radio Service is supposed to be comprised of "trained operators, technicians, and

## MINUTES JUNE GENERAL MEETING

The June General Meeting was called to order by Vice-President WA3AUN at 8:20 PM on June 5, 1989. (Guess who never showed up -Ed.)

N2RM read the minutes of the May meeting. They were approved as read.

KB3IV read the Treasurer's report and reminded the group to renew or become members of ARRL through the club.

W3BBB said the MARC Hamfest will be held on August 13th and Phil-Mont will furnish MO-COM for it. Jim then introduced the visitors who were KA3UKY/KT, N3GXK, Ronald Frederica, Vickie B. Hopkinson and WB9JUL.

electronic experts... for service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications." (Read Section 97.1 of the F.C.C. Rules to refresh your memory.)

To be licensed to drive a car, fly a plane, or operate a radio station, one must - and should - be required not only to learn the laws and theory involved, but also to demonstrate a minimum level of operating skill... a level of competence, which requires some degree of commitment. The ability to decipher code at 25 characters per minute demands at least that much commitment, and keeps off the ham bands those who have shown only that they have the price of a radio and the strength to squeeze a mike button.

## Maybe a typing test?

To those who argue that Morse code is 'passe', who insist that packet, AMTOR, or other fast digital modes are the state of the art, I would say, "Fine, then show me that you can operate a keyboard flawlessly at 40 WPM... learn some skill to qualify you as a communicator - beyond the ability to yap into a microphone."

But as long as the Question is: "When-Code", I vote for "NOW-Code"... or "KNOW-Code". We've already lowered our entrance requirements enough.

in Petaluma, California, however must still attain 18 words per minute to receive their third-class rating, though plans to reduce this speed are currently under discussion. And even though officer candidates, at the Merchant Marine Academy in Kings Point, New York, must pass a Coast Guard administered test for Morse code competency to graduate, cadets at the Coast Guard Academy in New London, Connecticut, do not, though they are required to take a course on the subject.

Even so, several sources have confirmed that, by 1999, Morse code will become largely obsolete.

Like painting, there might not be any money in pursuing Morse code as a vocation, but as an avocation the call has been put out for all radio amateurs. QST. For more information, contact:

John Hennessee  
225 Maine St., Newington, CT 06111;  
(203) 666-1541.

Tnx to K3KUD

## ...BUT SLOWLY PHASING OUT

As a result, the maritime, commercial and military need of radio operators to become proficient in Morse code is, in fact, slowly being phased out. The Navy, for several years, has not required knowledge of Morse code from any of its enlisted personnel or its officer candidates at the U.S. Naval Academy in Annapolis, Maryland. Radiomen candidates, at the U.S. Coast Guard training facility

SAME CORNER  
OTHER CORNER  
COMING SOON,,, MAYBE...

A U.S. AIRCRAFT CARRIER  
AND ITS

FRIENDLY GHOST.

USS FORRESTAL AND ITS  
RESIDENT GHOST GEORGE

# BURIAL AT SEA - Is Morse Code Really Dead?

*Despite Being Phased Out of the Military by 1999, this Century-Old Means of Communications is Kept Alive by over 1.7 Million Amateur Radio Operators Worldwide*

By Paul E. Van Heuklom  
Associate Editor, Sea Technology Magazine

Many of you probably know that Samuel F.B. Morse invented the electric telegraph and devised an arbitrary code comprised of dots and dashes representing the alphabet. But did you know that he also experimented with submarine cable telegraphy and that his brother, Sidney, perfected and early bathometer?

Furthermore, Sidney, along with still another brother, co-invented cerography, a method of making photographic stereotype plates. What does photography, you ask, have to do with Morse code? Nothing really, except that John Hennessee, regulatory information editor of the American Radio Relay League, recently cited an analogy between them. More than 150 years ago, when Louis Daguerre captured permanently the first image on a photographic plate, leading news headlines prematurely declared the death of scenic and portrait painting. Today, we are asking - in the face of modern satellite communications - "Is Morse code dead?"

The answer depends greatly upon whom you ask.

"It's practically dead", says the long-time editor and current editor emeritus of 'Sea Technology', Larry Booda.

"It's on the way out", states John Fuechsel, assistant director of Maritime Services, Comsat Corporation.

## PRIMARY DISTRESS CALL METHOD

But Joseph Hersey, chief of the U.S. Coast Guard's Marine Radio Policy Branch, exclaims "Absolutely NOT! It's the primary

means for ships sending distress calls." The Coast Guard continues to monitor the Morse code distress frequency, 500KHz, he says. In addition, the Coast Guard broadcasts safety information, disseminates fishing vessel reports, and receives weather observations as part of a ship reporting system - over 1,000 messages every month on nine stations - using Morse code on CW (continuous wave) frequency.

Then, of course, there are the 1,744,000 licensed ham radio operators around the world who mostly believe Morse code is an art form to be practiced and enjoyed despite faster and more convenient digital and voice forms of communicating via satellite.

Hersey does point out, however, that the system employing Morse code is expensive to maintain, and that the Coast Guard is looking for ways to shut it down. Moreover, the U.S. and 65 other maritime nations, recently agreed to amend the 1974 International Convention for the Safety of Life at Sea, all but replacing the need for Morse code. The global maritime distress and safety system (GMDSS), adopted last November in London at a two-week conference held by the International Maritime Organization, consists of sophisticated satellite and land-based radio services jointly developed over a 10 year period by the Coast Guard, the Federal Communications Commission, the Defense Mapping Agency, other government agencies, and the marine industry.

Under this system, cargo ships of 300 tons and above, and all passenger ships on international voyages, will be required to receive broadcasts of maritime safety information via electronic voice or text transmissions. Distress signals containing ship identifica-

Swap Net will be started this Thursday, even though Willingboro has a net at the same time.

PHIL-MONT (and others -Ed) HAMFEST: WB3CMM, Bill said that no one has time to run it, so it is too late for 1990.

ARRL Part 97 of the rules have been approved. They will be available in book form from ARRL. PRB-3 is dead regarding call signs on request. The FCC said it was not worth the effort..

BANANA INTERFERENCE: Talk about it only on the telephone. Don't tell what frequencies you will be going to.

KA2ZZA provided information for anyone interested in helping provide communica-

cations for two Bike-A-Thons. They are non-club activities, and are the Cancer Society Bike-A-Thon on July 23, and the MS-150 Bike-A-Thon on September 23 & 24. For both, call Walt, WB2OYQ at (609) 589-0090 and leave your name, call, phone number and shirt size.

The program, a discussion on a no-code ham license, was introduced by WA3AUN. It included a well documented oral dissertation by W3RM and prepared comments by W3BBB and opinions by many others.

VE PROGRAM: ND3Q, said there were 32 elements given and 21 passed.

Meeting was adjourned at 10:28 PM.

Respectfully Submitted, Robert R. Moore, N2RM, Secretary.

Bob Thomas, W3QZO

Second of a series by our former editors

deal with future contingencies.

What are some of the lapses I'm referring to? For example: NCS stands-by for calls from A - J and W3RRR comes back. For example: NCS says, "K2AB? I did not copy the last letter of your call, please repeat," to which some other station replies, "Where is the hamfest?" For example: KB3DD has a message for AK2III; NCS calls AK2III to set up the relay, but before he can reply, A3X breaks in to let everybody know it has started to rain in Paoli.... and so on. Please let me emphasize that this kind of sloppy operation is not typical of the net, but it does go on and, at the expense of being tagged a grouch, I am suggesting that it behooves us to eliminate it.

The net can be friendly, informative and above all, enjoyable, and still be orderly and instructive. We don't need, or want, regulation, and we don't have to resort to the stilted, quasi-military, lingo heard on some other nets, nor should we deprive ourselves of the occasional impromptu remark that cracks us up. But there are some fundamental operating procedures based, for the most part, upon common courtesy and LISTENING, that can be easily and painlessly integrated in our weekly on-air gathering. Maybe it's time to step back and take a look at our operating practices in light of the call letters of the repeater we use.

1989

JULY

1989

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>2</b> 2M NCS AK2I 10M NCS ANYONE 75M NCS W3PWG	<b>3</b> <i>Dog days begin</i>	<b>4</b> <i>Independence Day</i> <i>Earth at Aphelion</i>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b> <b>1</b>
<b>9</b> 2M NCS N3FTZ 10M NCS ANYONE 75M NCS W3AOA	<b>10</b> <b>GENERAL MEETING &amp; LICENSE EXAMS</b>	<b>11</b> CODE PRACTICE <i>Returns Sept 19</i>  <i>John Quincy Adams' Birthday 1767</i>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>  <b>PADDLERAMA</b>
<b>16</b> 2M NCS WB3CMM 10M NCS ANYONE 75M NCS W3RCE  <b>PADDLERAMA</b>	<b>17</b>	<b>18</b> CODE PRACTICE <i>Returns Sept 19</i>	<b>19</b> DIRECTORS' MEETING at KA3BET & N3EBE's	<b>20</b>  <i>1st man on the moon Apollo 11 - 1969</i>	<b>21</b>	<b>22</b>
<b>23</b> 2M NCS NS3Y 10M NCS ANYONE 75M NCS AK2I	<b>24</b>	<b>25</b> CODE PRACTICE <i>Returns Sept 19</i>	<b>26</b>	<b>27</b>	<b>28</b>  <i>WWI - 1914</i>	<b>29</b>
<b>30</b> 2M NCS KA3BET 10M NCS ANYONE 75M NCS W3HFY  <i>BRATS' hamfest Timonium, MD</i>	<b>31</b>					

**EXTRA**

BAND	<u>ALL MODES</u>			
	1.800 -	2.000		
	<u>CW/RTTY</u>		<u>CW/VOICE/SSTV/FAX</u>	
160	3.500 -	3.750	3.750 -	4.000
80	7.000 -	7.150	7.150 -	7.300
40	10.100 -	10.150		
20	14.000 -	14.150	14.150 -	14.350
15	21.000 -	21.200	21.200 -	21.450
12	24.890 -	24.930	24.930 -	24.990
10	28.000 -	28.300	28.300 -	29.700
	<u>CW ONLY</u>		<u>ALL MODES</u>	
6	50.000 -	50.100	50.100 -	54.000
2	144.000 -	144.100	144.100 -	148.000
	<u>ALL MODES</u>			
1 1/4	220.000 -	225.000		
70 cm	420.000 -	450.000		
33 cm	902.000 -	928.000		
23 cm	1240.000 -	1300.000		

As of 21 March 1987.  
Frequencies in MHz.

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## Desktop Guide to US Amateur Frequency Allocations

Dear PHILMONT:

Here is the long awaited update to my Desktop Guide to US Amateur Frequency Allocations. I have found this format to be much easier to decipher than the ARRL bar charts.

For those with digital readouts on their rigs or frequency counters, this chart will give you an instant picture of the frequency limits corresponding with your class of license, mode of operation, and band.

Simply fold the page in quarters with your class of license on top. Tack up near the rig or slid under the desk top glass.

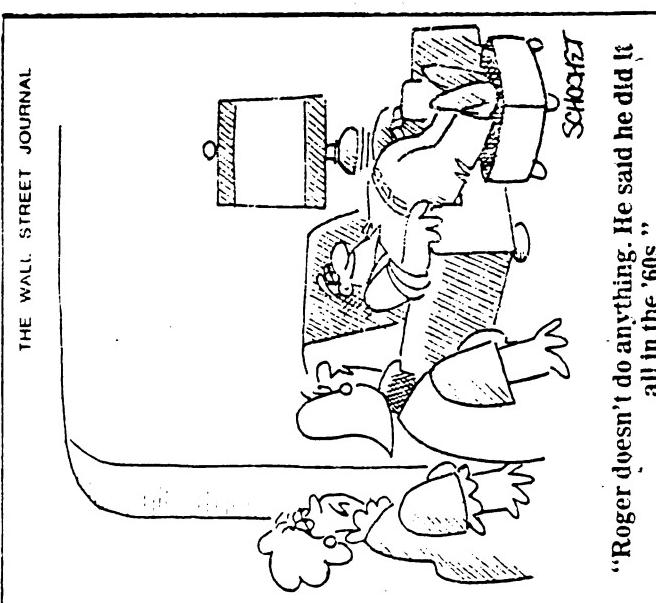
Wishing you good DX from the mobile and happy motoring.

73,

**Rick**  
KF4LM

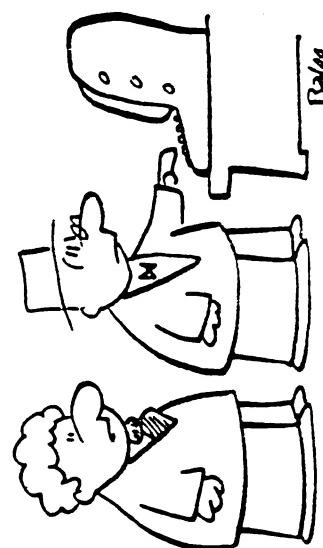
## The BLURB

### A PHIL-MONT Old Timer?



THE WALL STREET JOURNAL

**COMPUTER SALES**



"Careful, sir... they can sense fear."

**NOVICE****TECHNICIAN****BAND CW ONLY**

8 0	3.700 -	3.750
4 0	7.100 -	7.150
1 5	21.100 -	21.200

**CW/RTTY**

1 0	28.100 -	28.300	28.300 -	28.500
-----	----------	--------	----------	--------

**ALL MODES**

1 1/4	222.100 -	223.910
23 cm	1270.000 -	1295.000

As of 21 March 1987.  
Frequencies in MHz.

**BAND****CW ONLY**

8 0	3.700 -	3.750
4 0	7.100 -	7.150
1 5	21.100 -	21.200

**CW/RTTY**

1 0	28.100 -	28.300	28.300 -	28.500
-----	----------	--------	----------	--------

**CW ONLY**

6	50.000 -	50.100	50.100 -	54.000
2	144.000 -	144.100	144.100 -	148.000

**ALL MODES**

1 1/4	220.000 -	225.000
70 cm	420.000 -	450.000
33 cm	902.000 -	928.000
23 cm	1240.000 -	1300.000

As of 21 March 1987.  
Frequencies in MHz.

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**GENERAL****ADVANCED****BAND ALL MODES**

1 6 0	1.800 -	2.000
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**CW/RTTY****CW/VOICE/SSTV/FAX**

8 0	3.525 -	3.750	3.850 -	4.000
-----	---------	-------	---------	-------

4 0	7.025 -	7.150	7.225 -	7.300
-----	---------	-------	---------	-------

3 0	10.100 -	10.150		
-----	----------	--------	--	--

2 0	14.025 -	14.150	14.225 -	14.350
-----	----------	--------	----------	--------

1 5	21.025 -	21.200	21.300 -	21.450
-----	----------	--------	----------	--------

1 2	24.890 -	24.930	24.930 -	24.990
-----	----------	--------	----------	--------

1 0	28.000 -	28.300	28.300 -	29.700
-----	----------	--------	----------	--------

**CW ONLY****ALL MODES**

6	50.000 -	50.100	50.100 -	54.000
---	----------	--------	----------	--------

2	144.000 -	144.100	144.100 -	148.000
---	-----------	---------	-----------	---------

**ALL MODES**

1 1/4	220.000 -	225.000		
-------	-----------	---------	--	--

70 cm	420.000 -	450.000	As of 21 March 1987.	
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33 cm	902.000 -	928.000	Frequencies in MHz.	
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23 cm	1240.000 -	1300.000		
-------	------------	----------	--	--

**BAND ALL MODES**

1 6 0	1.800 -	2.000
-------	---------	-------

**CW/RTTY****CW/VOICE/SSTV/FAX**

8 0	3.525 -	3.750	3.775 -	4.000
-----	---------	-------	---------	-------

4 0	7.025 -	7.150	7.150 -	7.300
-----	---------	-------	---------	-------

3 0	10.100 -	10.150		
-----	----------	--------	--	--

2 0	14.025 -	14.150	14.175 -	14.350
-----	----------	--------	----------	--------

1 5	21.025 -	21.200	21.225 -	21.450
-----	----------	--------	----------	--------

1 2	24.890 -	24.930	24.930 -	24.990
-----	----------	--------	----------	--------

1 0	28.000 -	28.300	28.300 -	29.700
-----	----------	--------	----------	--------

**CW ONLY****ALL MODES**

6	50.000 -	50.100	50.100 -	54.000
---	----------	--------	----------	--------

2	144.000 -	144.100	144.100 -	148.000
---	-----------	---------	-----------	---------

**ALL MODES**

1 1/4	220.000 -	225.000		
-------	-----------	---------	--	--

70 cm	420.000 -	450.000	As of 21 March 1987.	
-------	-----------	---------	----------------------	--

33 cm	902.000 -	928.000	Frequencies in MHz.	
-------	-----------	---------	---------------------	--

23 cm	1240.000 -	1300.000		
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*TOO LATE TO INCLUDE IN CALENDAR!*

SUPPORT OUR REVITALIZED

SWAP NET

on

Wednesdays at 8:30 PM